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AN ISO 9001: 2015, MSME. CERTIFIED COMPANY

Test Report On Concrete Core (Kerb Stone)

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Major Sandeep UnniKrishanan road
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO:	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Date of Testing:	29-07-22
Submission Date:	22-08-22

Sl. No.	Dia of Core D(mm)	Height of Core H(mm)	Core Wt. (Kg)	Density of Core(Kg /M²)	H/D	Correction Factor (Based on H/D)	Failure Load (KN)	Core Strength (N/mm²)	Correction Factor for the Dia.(Strength of the Core X 1.08)	Corrected Cylinder Compressive strength(N/mm²)	Equivalent Cube Compressive strength(N/mm²)
1	50.00	78	0.385	2513.83	1.56	0.950	25.15	12.18	13.85	13.14	16.43
2	50.00	79	0.394	2540.03	1.58	0.960	25.37	12.92	13.95	13.40	16.75
3	50.00	80	0.401	2552.85	1.60	0.955	25.65	13.06	14.11	13.47	16.84

A.E.E. (Project)

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Test Report On Concrete Core (Kerb Stone)

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Major Sandeep UnniKrishanan road
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO:	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Date of Testing:	28-07-22
Submission Date:	22-08-22

Sl. No.	Dia of Core D(mm)	Height of Core H(mm)	Core Wt. (Kg)	Density of Core(Kg/M²)	H/D	Correction Factor (Based on H/D)	Failure Load (KN)	Core Strength (N/mm²)	Correction Factor for the Dia.(Strength of the Core X 1.08)	Corrected Cylinder Compressive strength(N/mm²)	Equivalent Cube Compressive strength(N/mm²)
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2	50.00	79	0.394	2540.03	1.58	0.960	25.37	12.92	13.95	13.40	16.75
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Test Report On Concrete Core (Kerb Stone)

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Allalasandra Lake
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO:	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Date of Testing:	30-07-22
Submission Date:	22-08-22

Sl. No.	Dia of Core D(mm)	Height of Core H(mm)	Core Wt. (Kg)	Density of Core(Kg /M²)	H/D	Correction Factor (Based on H/D)	Failure Load (KN)	Core Strength (N/mm²)	Correction Factor for the Dia.(Strength of the Core X 1.08)	Corrected Cylinder Compressive strength(N/mm²)	Equivalent Cube Compressive strength(N/mm²)
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Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Avalahalli Lake
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO:	EE(PROJECT)/YNK ZONE/WO/07/2022-23 DATED:15/07/2022
Condition of Samples:	Satisfactory
Test According to:	IS: 1237-1980 (Reaffirmed 2006)
Date of Testing:	30-07-22
Submission Date:	22-08-22

I. Wet Transverse Strength Test:

Sl. No.	Measured Dimension in mm	Wet Transverse Strength Test N/mm²	Average N/mm²	Requirement as per IS: 1237-1980(Reaffirmed 2006)
1	300x300x24.8	6.6	6.65	The average wet transverse strength should not be less than 3.0 N/mm² when 6 full size tiles are tested.
2	300x300x23.7	7.1		
3	300x300x24.5	7.0		
4	300x300x24.8	6.5		
5	300x300x25.1	6.3		
6	300x300x24.9	6.4		

A.E.E. (Project)
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II. Water Absorption Test

Sl. No.	Measured Dimension in mm	Wet Transverse Strength Test N/mm²	Average N/mm²	Requirement as per IS: 1237-1980(Reaffirmed 2006)
1	300x300x24.8	2.8	2.95	The average percentage of water absorption should not exceed 10% when 6 full size tiles are tested.
2	300x300x23.7	2.9		
3	300x300x24.5	3.1		
4	300x300x24.8	2.9		
5	300x300x25.1	3.2		
6	300x300x24.9	2.8		

III. Hardness:

Sl. No.	Measured Dimension in mm	Moh's scale Hardness No.
1	300x300x24.8	6
2	300x300x23.7	6
3	300x300x24.5	6
4	300x300x24.8	6
5	300x300x25.1	6
6	300x300x24.9	6

A.E.E. (Tech)

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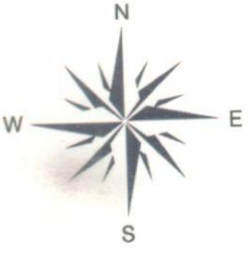

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Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Allalasandra Lake
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO:	EE(PROJECT)/YNK ZONE/WO/07/2022-23 DATED:15/07/2022
Condition of Samples:	Satisfactory
Test According to:	IS: 1237-1980 (Reaffirmed 2006)
Date of Testing:	30-07-22
Submission Date:	22-08-22

I. Wet Transverse Strength Test:

Sl. No.	Measured Dimension in mm	Wet Transverse Strength Test N/mm²	Average N/mm²	Requirement as per IS: 1237-1980(Reaffirmed 2006)
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6	300x300x24.9	6.4		

A.E.E. (Project)

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III. Hardness:

Sl. No.	Measured Dimension in mm	Moh's scale Hardness No.
1	300x300x24.8	6
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4	300x300x24.8	6
5	300x300x25.1	6
6	300x300x24.9	6

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Test Report on Pre-Polished Cement Concrete Designer Tiles

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Harohalli Lake
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO:	EE(PROJECT)/YNK ZONE/WO/07/2022-23 DATED:15/07/2022
Condition of Samples:	Satisfactory
Test According to:	IS: 1237-1980 (Reaffirmed 2006)
Date of Testing:	30-07-22
Submission Date:	22-08-22

I. Wet Transverse Strength Test:

Sl. No.	Measured Dimension in mm	Wet Transverse Strength Test N/mm²	Average N/mm²	Requirement as per IS: 1237-1980(Reaffirmed 2006)
1	300x300x24.8	6.6	6.65	The average wet transverse strength should not be less than 3.0 N/mm² when 6 full size tiles are tested.
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II. Water Absorption Test

Sl. No.	Measured Dimension in mm	Wet Transverse Strength Test N/mm²	Average N/mm²	Requirement as per IS: 1237-1980(Reaffirmed 2006)
1	300x300x24.8	2.8	2.95	The average percentage of water absorption should not exceed 10% when 6 full size tiles are tested.
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III. Hardness:

Sl. No.	Measured Dimension in mm	Moh's scale Hardness No.
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4	300x300x24.8	6
5	300x300x25.1	6
6	300x300x24.9	6

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A.E.E. (Project)

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Test Report on Pre-Polished Cement Concrete Designer Tiles

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Major Sandeep Unnikrishanan road
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO:	EE(PROJECT)/YNK ZONE/WO/07/2022-23 DATED:15/07/2022
Condition of Samples:	Satisfactory
Test According to:	IS: 1237-1980 (Reaffirmed 2006)
Date of Testing:	30-07-22
Submission Date:	22-08-22

I. Wet Transverse Strength Test:

Sl. No.	Measured Dimension in mm	Wet Transverse Strength Test N/mm²	Average N/mm²	Requirement as per IS: 1237-1980(Reaffirmed 2006)
1	300x300x24.8	6.6	6.65	The average wet transverse strength should not be less than 3.0 N/mm² when 6 full size tiles are tested.
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II. Water Absorption Test

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1	300x300x24.8	2.8	2.95	The average percentage of water absorption should not exceed 10% when 6 full size tiles are tested.
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5	300x300x25.1	3.2		
6	300x300x24.9	2.8		

III. Hardness:

Sl. No.	Measured Dimension in mm	Moh's scale Hardness No.
1	300x300x24.8	6
2	300x300x23.7	6
3	300x300x24.5	6
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TEST REPORT ON CEMENT (Material Tests for 1:3:6)

Name of work:	**Providing Stone benches in ward No.01,02,03 & 04**
Location:	**Yelahanka Lake**
Client:	**Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore**
Name of the Agency:	**Shri B B Umesh**
Online WO	**EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022**
Condition of Samples:	**Satisfactory**
Test According to:	**Relevant IS code**
Date of Testing:	**16-09-20**
Submission Date:	**22-08-22**

SL no	Description	Test Method as per IS	Test Result	Remarks
1	a) Initial setting time	IS: -4031 (part-5)	128 Minutes	ok
	b) Final setting time	IS: -4031 (part-5)	460Minutes	ok
2	Soundness	IS: 4031 (part-3) La-Chatelier method	3.0 mm	ok
3	Standard Consistency	IS: -4031 (part-4)	25.00%	ok
4	Compressive Strength			
	a) 3 Days	Mpa	26	ok
	b) 7 Days	Mpa	37	ok

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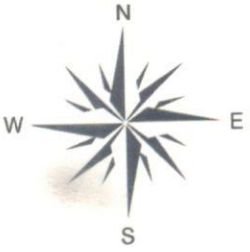

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TEST REPORT ON FINE AGGREGATE (Material Tests for 1:3:6)

Name of work:	**Providing Stone benches in ward No.01,02,03 & 04**
Location:	**Yelahanka Lake**
Client:	**Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore**
Name of the Agency:	**Shri B B Umesh**
Online WO	**EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022**
Condition of Samples:	**Satisfactory**
Test According to:	**Relevant IS code**
Date of Testing:	**16-09-20**
Submission Date:	**22-08-22**

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
10	0	0	0	100	100
4.75	30	30	2.22	97.78	90-100
2.36	62	92	6.81	93.82	75-100
1.18	90	182	13.48	86.52	55-90
600 Micron	480	662	49.03	50.97	35-59
300 Micron	358	1020	75.55	24.45	8-30
150 Micron	325	1345	99.62	0.38	0-10

SAMPLE ID: Sand Total Wt. of Aggregate in Gms: 1350

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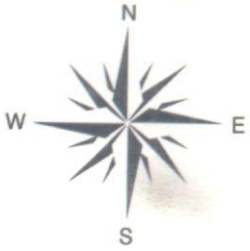

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TEST REPORT ON COARSE AGGREGATE(Material Tests for 1:3:6)

Name of work:	**Providing Stone benches in ward No.01,02,03 & 04**
Location:	**Yelahanka Lake**
Client:	**Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore**
Name of the Agency:	**Shri B B Umesh**
Online WO	**EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022**
Condition of Samples:	**Satisfactory**
Test According to:	**Relevant IS code**
Date of Testing:	**16-09-20**
Submission Date:	**22-08-22**

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
40	0	0	0	100	100
20	195	195	8.125	91.87	95-100
10	1150	1345	56.04	43.96	25-55
4.75	955	2300	95.87	4.125	0-10

Total Wt of Aggregate in Gms: 2300

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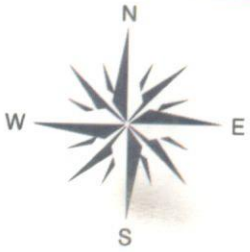

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Test Report On Concrete Core (Kerb Stone)

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Yelahanka Lake
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Reference:	EE(PROJECT)/YNK ZONE/WO/12/2021-22
Condition of Samples:	Satisfactory
Test According to:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Date of Testing:	30-09-20
Submission Date:	22-08-22

Sl. No.	Dia of Core D(mm)	Height of Core H(mm)	Core Wt. (Kg)	Density of Core(Kg /M²)	H/D	Correction Factor (Based on H/D)	Failure Load (KN)	Core Strength (N/mm²)	Correction Factor for the Dia.(Strength of the Core X 1.08)	Corrected Cylinder Compressive strength(N/mm²)	Equivalent Cube Compressive strength(N/mm²)
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Test Report On Concrete Core (Kerb Stone)

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Yelahanka Lake
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Reference:	EE(PROJECT)/YNK ZONE/WO/12/2021-22
Condition of Samples:	Satisfactory
Test According to:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Date of Testing:	27-09-20
Submission Date:	22-08-22

Sl. No.	Dia of Core D(mm)	Height of Core H(mm)	Core Wt. (Kg)	Density of Core(Kg /M²)	H/D	Correction Factor (Based on H/D)	Failure Load (KN)	Core Strength (N/mm²)	Correction Factor for the Dia.(Strength of the Core X 1.08)	Corrected Cylinder Compressive strength(N/mm²)	Equivalent Cube Compressive strength(N/mm²)
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Test Report On Concrete Core (Kerb Stone)

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Yelahanka Lake
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Reference:	EE(PROJECT)/YNK ZONE/WO/12/2021-22
Condition of Samples:	Satisfactory
Test According to:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Date of Testing:	27-09-20
Submission Date:	22-08-22

Sl. No.	Dia of Core D(mm)	Height of Core H(mm)	Core Wt. (Kg)	Density of Core(Kg /M²)	H/D	Correction Factor (Based on H/D)	Failure Load (KN)	Core Strength (N/mm²)	Correction Factor for the Dia.(Strength of the Core X 1.08)	Corrected Cylinder Compressive strength(N/mm²)	Equivalent Cube Compressive strength(N/mm²)
1	50.00	78	0.385	2513.83	1.56	0.950	25.15	12.18	13.85	13.14	16.43
2	50.00	79	0.394	2540.03	1.58	0.960	25.37	12.92	13.95	13.40	16.75
3	50.00	80	0.401	2552.85	1.60	0.955	25.65	13.06	14.11	13.47	16.84

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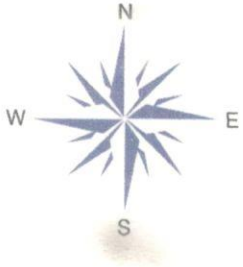

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Test Report On Concrete Core (Kerb Stone)

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Yelahanka Lake
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Reference:	EE(PROJECT)/YNK ZONE/WO/12/2021-22
Condition of Samples:	Satisfactory
Test According to:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Date of Testing:	27-09-20
Submission Date:	22-08-22

Sl. No.	Dia of Core D(mm)	Height of Core H(mm)	Core Wt. (Kg)	Density of Core(Kg/M²)	H/D	Correction Factor (Based on H/D)	Failure Load (KN)	Core Strength (N/mm²)	Correction Factor for the Dia.(Strength of the Core X 1.08)	Corrected Cylinder Compressive strength(N/mm²)	Equivalent Cube Compressive strength(N/mm²)
1	50.00	78	0.385	2513.83	1.56	0.950	25.15	12.18	13.85	13.14	16.43
2	50.00	79	0.394	2540.03	1.58	0.960	25.37	12.92	13.95	13.40	16.75
3	50.00	80	0.401	2552.85	1.60	0.955	25.65	13.06	14.11	13.47	16.84

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FIELD DENSITY OF WMM

Name of work:	**Providing Stone benches in ward No.01,02,03 & 04**
Location:	**Yelahanka Lake**
Client:	**Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore**
Name of the Agency:	**Shri B B Umesh**
Reference:	**EE(PROJECT)/YNK ZONE/WO/12/2021-22**
Condition of Samples:	**Satisfactory**
Test According to:	**Relevant IS code**
Date of Testing:	**16-09-20**
Submission Date:	**22-08-22**

Test Results – Existing Wet Mix Samples

Sample N0	Location	Modified proctor density g/cc	OMC In %	Field Density in g/CC	Field Moisture Content in %	Compaction In %
1	Yelahanka Lake	2.24	5.11	2.20	5.04	98.66
2	Yelahanka Lake	2.25	5.15	2.21	5.05	98.21
3	Yelahanka Lake	2.24	5.11	2.20	5.04	98.19
4	Yelahanka Lake	2.24	5.11	2.20	5.03	98.64

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TEST REPORT ON CEMENT (Material Tests for 1:3:6)

Name of work:	**Providing Stone benches in ward No.01,02,03 & 04**
Location:	**Yelahanka Lake**
Client:	**Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore**
Name of the Agency:	**Shri B B Umesh**
Reference:	**EE(PROJECT)/YNK ZONE/WO/12/2021-22**
Condition of Samples:	**Satisfactory**
Test According to:	**Relevant IS code**
Date of Testing:	**16-09-20**
Submission Date:	**22-08-22**

SL no	Description	Test Method as per IS	Test Result	Remarks
1	a) Initial setting time	IS: -4031 (part-5)	128 Minutes	ok
	b) Final setting time	IS: -4031 (part-5)	460Minutes	ok
2	Soundness	IS: 4031 (part-3) La-Chatelier method	3.0 mm	ok
3	Standard Consistency	IS: -4031 (part-4)	25.00%	ok
4	Compressive Strength			
	a) 3 Days	Mpa	26	ok
	b) 7 Days	Mpa	37	ok

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TEST REPORT ON FINE AGGREGATE (Material Tests for 1:3:6)

Name of work:	**Providing Stone benches in ward No.01,02,03 & 04**
Location:	**Yelahanka Lake**
Client:	**Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore**
Name of the Agency:	**Shri B B Umesh**
Reference:	**EE(PROJECT)/YNK ZONE/WO/12/2021-22**
Condition of Samples:	**Satisfactory**
Test According to:	**Relevant IS code**
Date of Testing:	**16-09-20**
Submission Date:	**22-08-22**

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
10	0	0	0	100	100
4.75	30	30	2.22	97.78	90-100
2.36	62	92	6.81	93.82	75-100
1.18	90	182	13.48	86.52	55-90
600 Micron	480	662	49.03	50.97	35-59
300 Micron	358	1020	75.55	24.45	8-30
150 Micron	325	1345	99.62	0.38	0-10

SAMPLE ID: Sand Total Wt. of Aggregate in Gms: 1350

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